

New York State Department of Transportation

Yellow Flag NB2222W006

By: Sahadeo Bhagwandin
Flag Date: March 29, 2022

Superseding Information:
This flag supersedes: YF NB2197W034

Structure Information

BIN: 1065318
Feature Carried: 278I278IX2M23027
Feature Crossed: 6TH AVENUE
Orientation: 8 - NORTHWEST
Region: 11 - NEW YORK CITY
County: KINGS
Political Unit: City of NEW YORK
Approximate Year Built: 1962
Posted Load Matches Inventory : Yes
Bridge Load Posting (Tons) : Not Posted for Load
Primary Owner: New York State Department of Transportation
Primary Maintenance Responsibility: 12 - State - Subcontracted to another Party
Typical or Main Span Type: 3 - Steel, 02 - Stringer/Multi-Beam or Girder
This Bridge is not a Ramp
Number of Spans: 322

Verbal Notification Information

Person Notified: Heinz Joachim, P.E.
Date: March 29, 2022 10:00:00 AM
Of: NYSDOT Region 11

Signature Information

Signature: Sahadeo Bhagwandin, P.E. 088239-1
Date: April 12, 2022
Reviewed By: Robert Kemp
Date: April 12, 2022

Attachments: 10

Flagged Elements

Parent Element	Element	Total Quantity	Unit
Span Number : 251			
	107 - Steel Open Girder/Beam	989	ft
	PR831 - Steel Beam End	42	each

Flagged Condition Description

This Yellow Flag No. NB2222W006 is superseding Yellow Flag No. NB2197W034.

Location: Span 251, Girder G19 at Pier 251

Description: The right connection angle at Girder G19 connection to the pier cap at Pier 251 exhibits a 1.5" H x 1/2" W vertical corrosion crack at the lower fillet section (previously noted to be 1.5" H x 1" W) and a 3" H x 3/4" W vertical corrosion crack at the upper fillet section (no change). The remaining height of the connection angle exhibits up to 30% section loss for 6" H at lower portion (no change) and up to 50% section loss for 3" H at the upper portion (no change).

The left connection angle exhibits a 3.25" L x 2.5" H corrosion hole at the bottom (no change) and a 2" H x 1" W hole at the Girder G19 bottom flange level (previously noted to be 7/8" L x 1.25" H). Additionally, there is 1.5" H area of up to 90% section loss at the top of the connection angle. Remaining height of the connection angle exhibits up to 20% section loss.

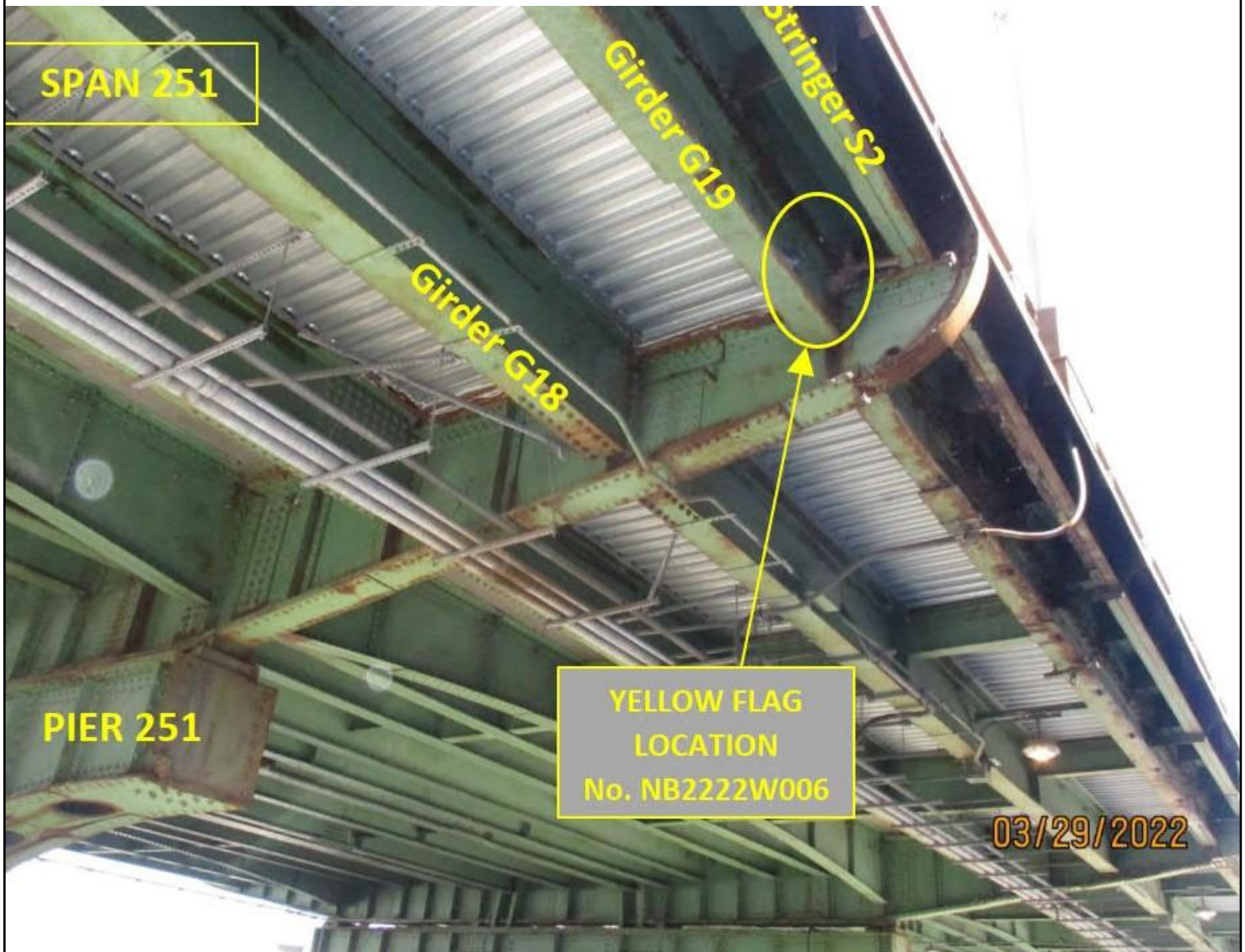
Notes:

1. The affected member, Girder G19 is a load path redundant steel girder consisting of a web depth of 19.5" inches and thickness of 0.606 inches and is located under the deck in the roadway, approximately 12" off the edge of curb line/safety walk. All dimensions were measured in the field.
2. The adjacent Girder G18, is 5'-5" on center, has repair plates and is in good condition.
3. The adjacent Stringer S2, approximately 24" on center, acts as a support for the railing and curb area above. Web of the stringer exhibits up to 30% section loss along the connection angle. Bottom flange exhibits two corrosion holes measuring 1/2" and 3/4" in diameter in the left angle. Overall section loss of the bottom flange is approximately 25% for 1' long section.
4. A double left lane closure on 3rd Avenue Eastbound between 22nd and 21st streets with shadow vehicle and a 30' bucket truck is required to access the flagged location.

Flag Photographs

Photo Number: 1

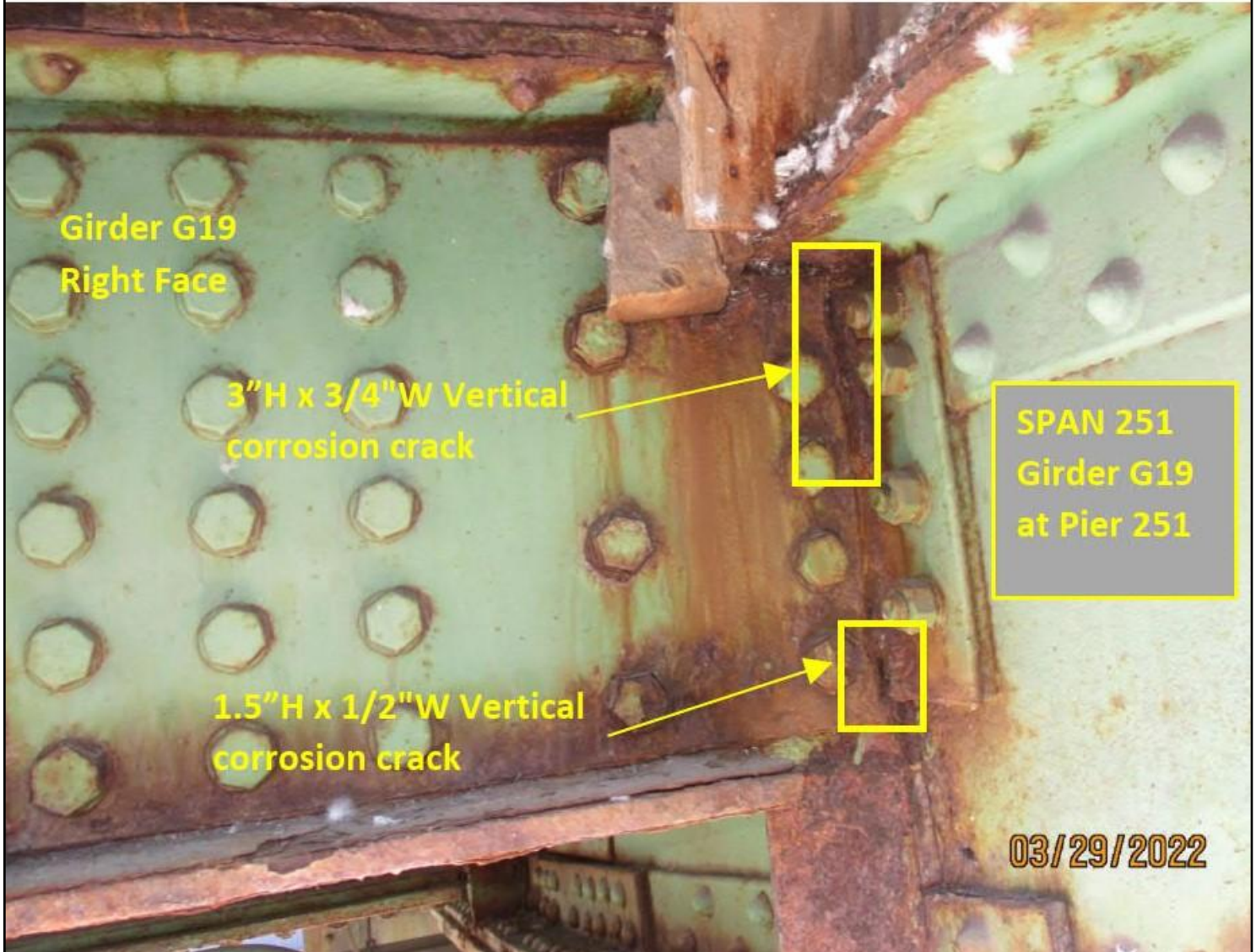
Photo Filename: Photo 1-4577.jpg



Attachment Description: Span 251, Girder G19 at Pier 251. General view of the flagged location at pier cap connection. Looking end left.

Photo Number: 2

Photo Filename: Photo 2-4600.jpg



Attachment Description: Span 251, Girder G19 at Pier 251. Close-up view of flagged location. Looking left.

Photo Number: 3

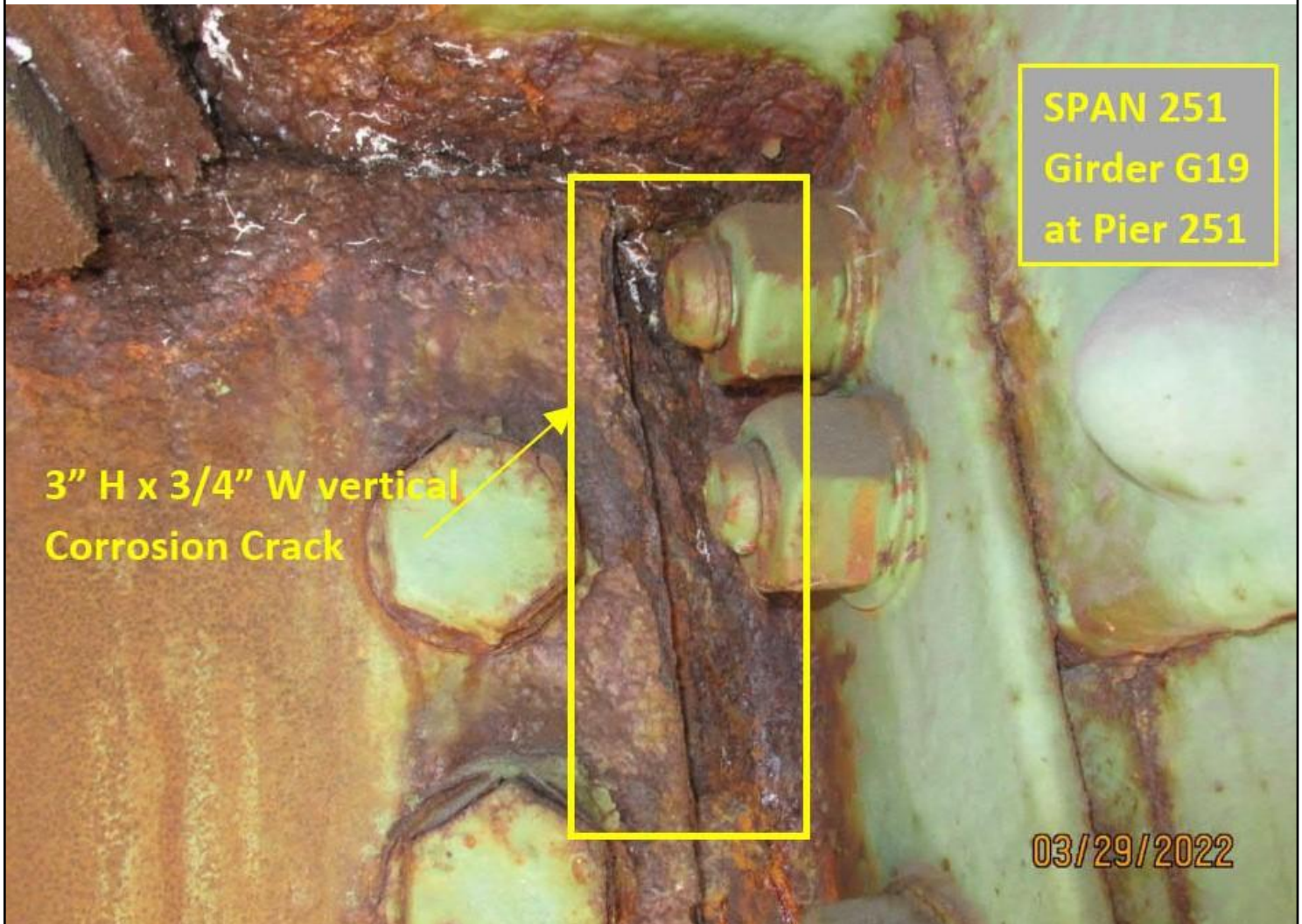
Photo Filename: Photo 3-4598-edit.jpg



Attachment Description: Span 251, Girder G19 at Pier 251. Close-up view of a 1.5"H x 1/2"W vertical corrosion crack at the lower fillet section of the right connection angle. Looking end left.

Photo Number: 4

Photo Filename: Photo 4-4597.jpg



Attachment Description: Span 251, Girder G19 at Pier 251. Close-up view of a 3" H x 3/4" W vertical corrosion crack at the upper fillet section of the right connection angle. Looking left.

Photo Number: 5

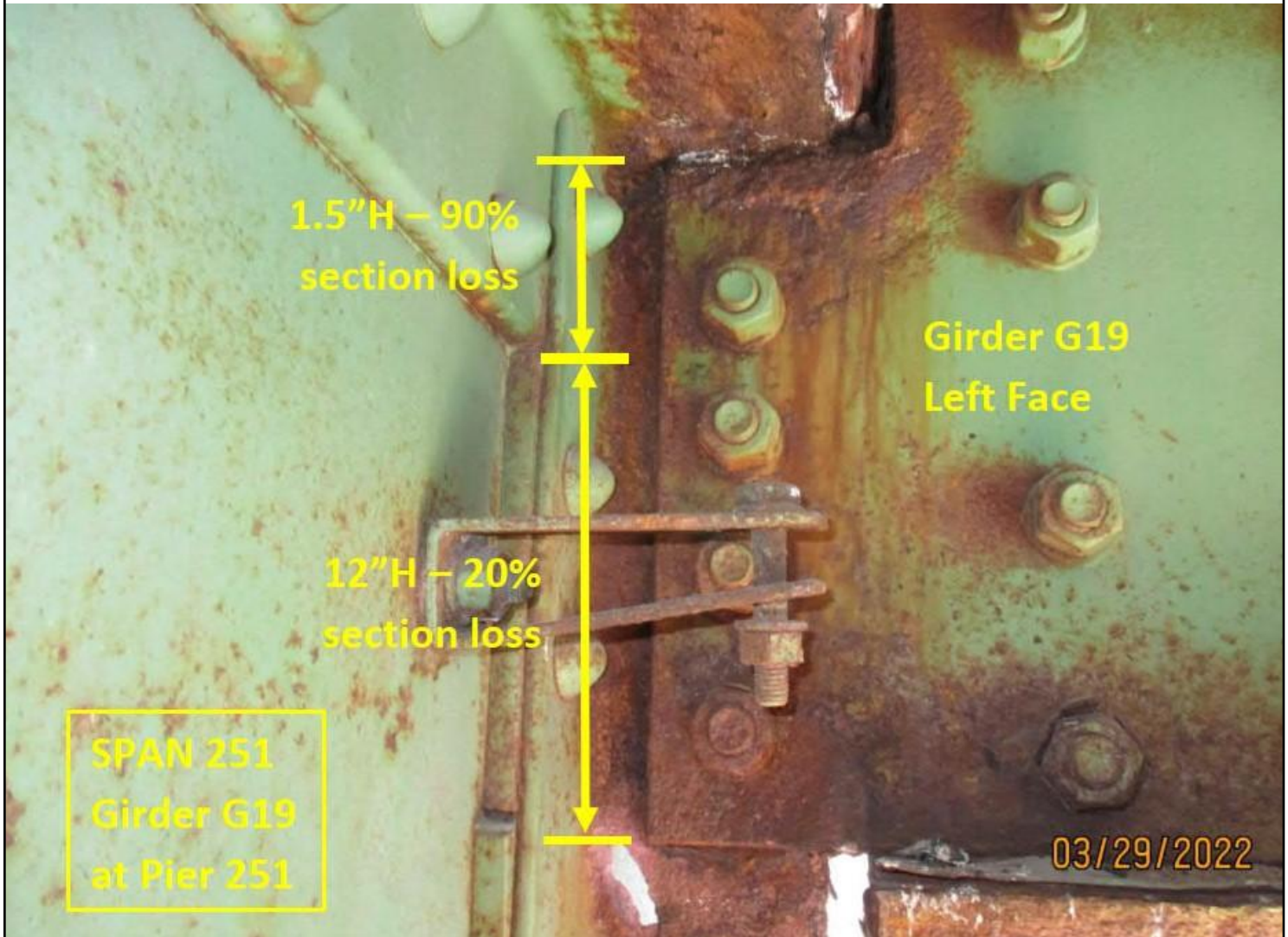
Photo Filename: Photo 5-4578.jpg



Attachment Description: Span 251, Girder G19 at Pier 251. Close-up view of a 3.25" L x 2.5" H corrosion hole and a 2" H x 1" W corrosion hole at the left side connection angle stiffener. Looking end right.

Photo Number: 6

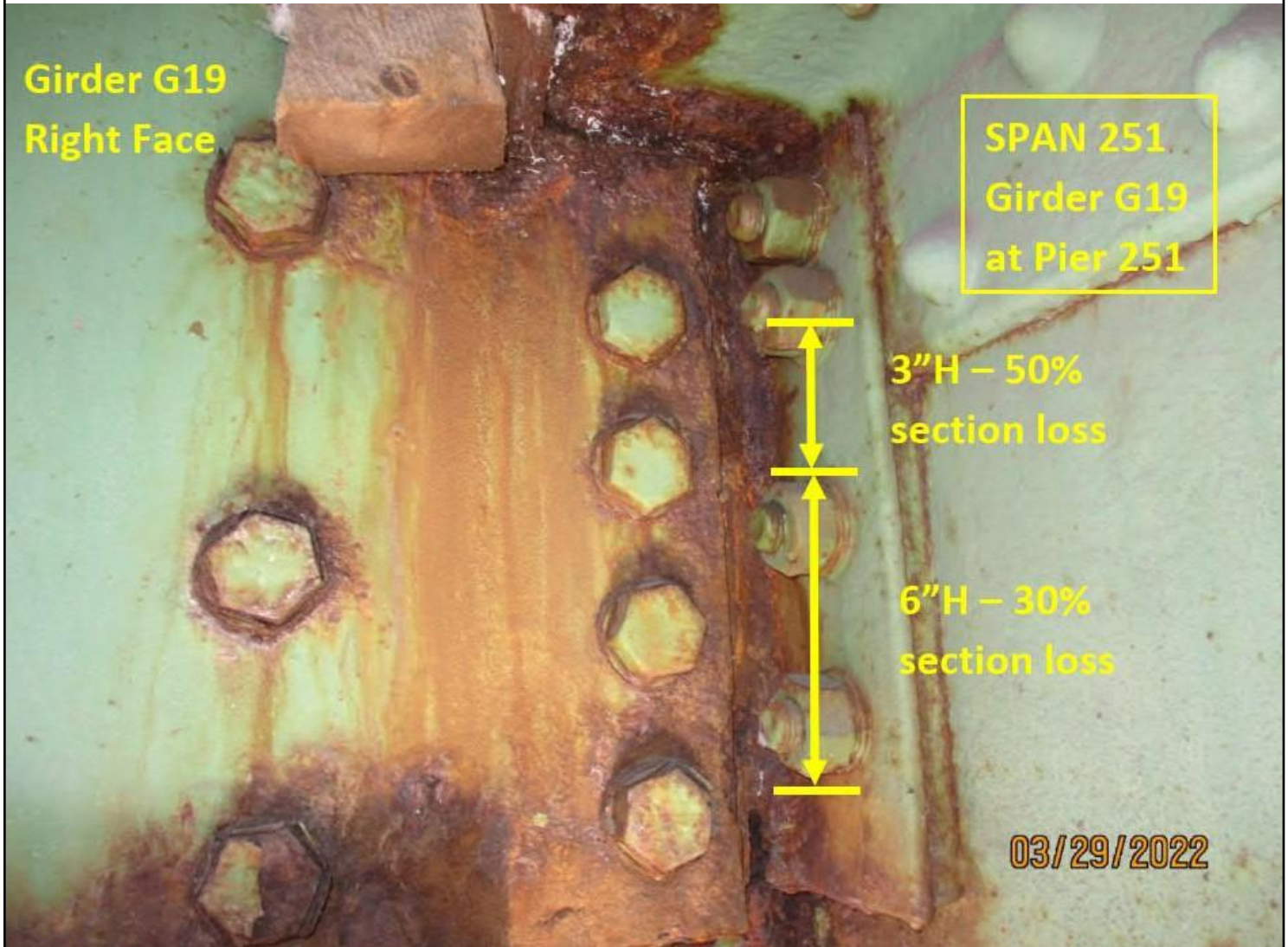
Photo Filename: Photo 6-4579.jpg



Attachment Description: Span 251, Girder G19 at Pier 251. Close-up view of section loss area at left side connection angle. Looking right.

Photo Number: 7

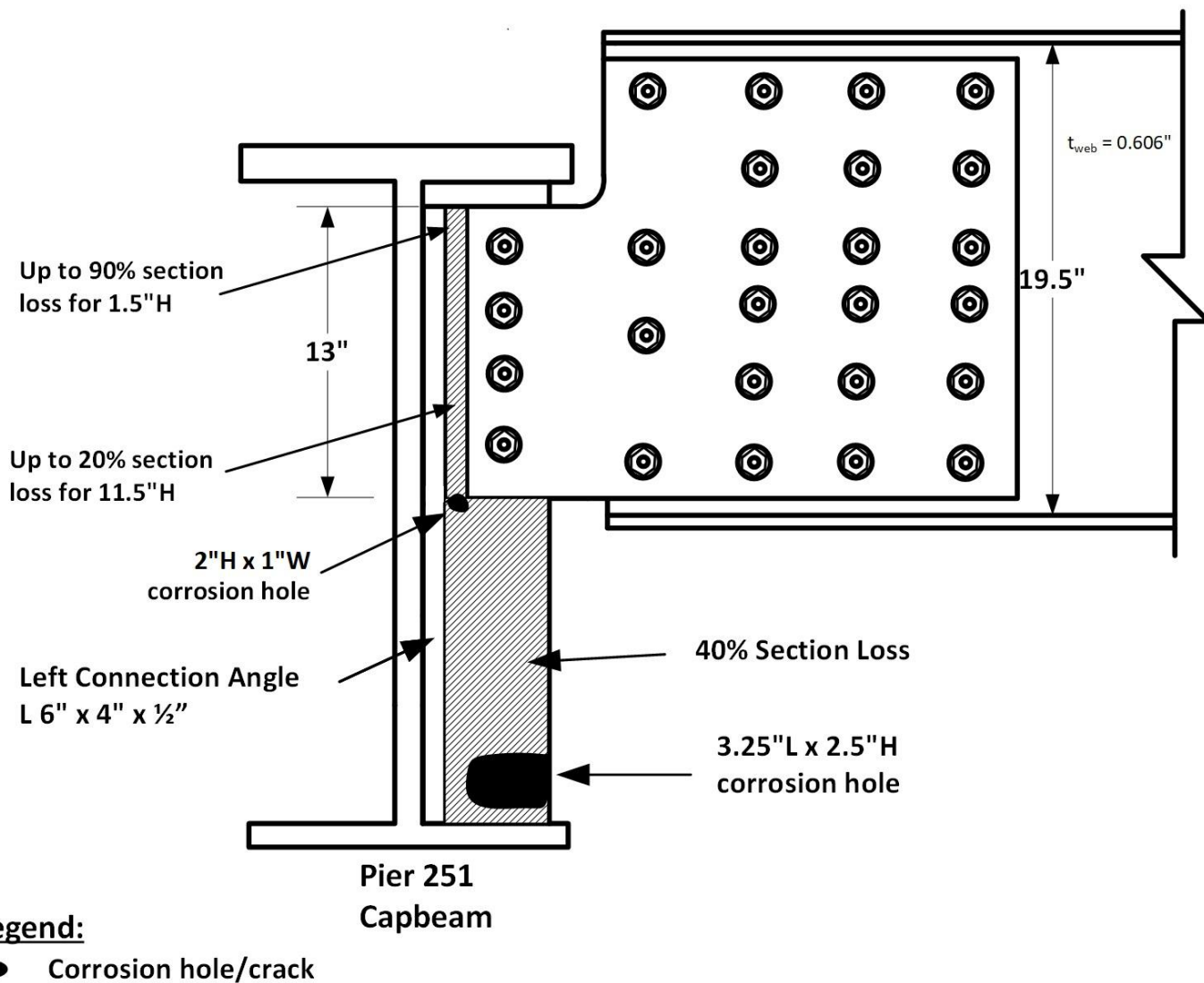
Photo Filename: Photo 7-4596.jpg



Attachment Description: Span 251, Girder G19 at Pier 251. Close-up view of section loss area at mid-section of the right connection angle. Looking end left.

Photo Number: 8

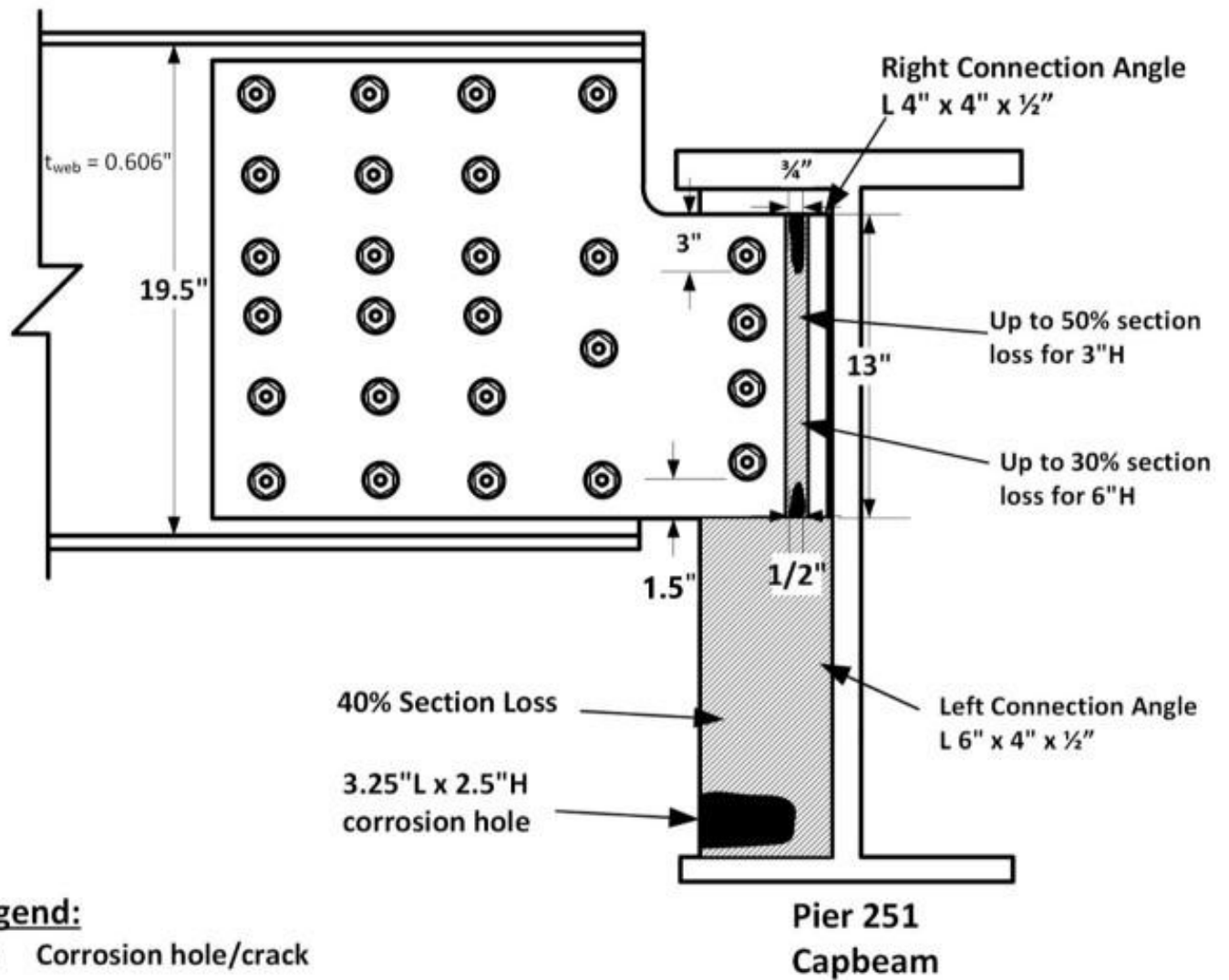
Photo Filename: SN 251 G19 _ Left Face _ Sketch 2022.jpg



Attachment Description: SN 251 G19 at Pier 251 Sketch Looking Right

Photo Number: 9

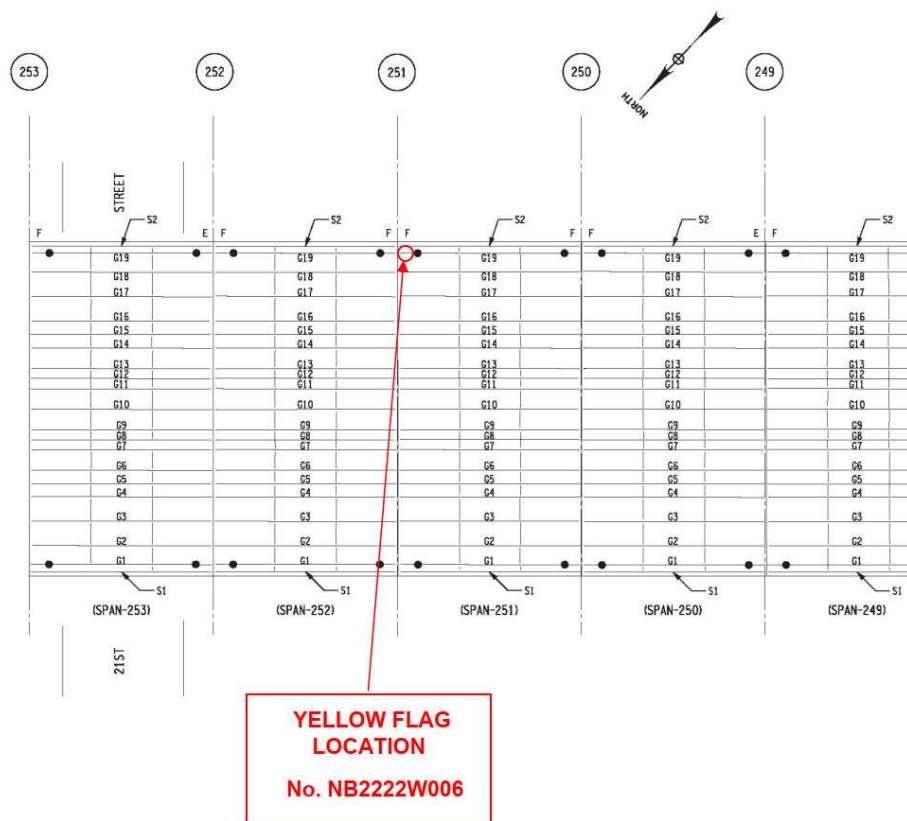
Photo Filename: SN 251 G19_Right Face_Sketch 2022--1.jpg



Attachment Description: SN 251 G19 at Pier 251 Sketch Looking Left

Photo Number: 10

Photo Filename: Framing plan Span 251 edit.jpg



Attachment Description: SN 251 G19 at Pier 251 Framing Plan